

Results for the 12'x180' circular tank with ramp:

Circular tank:

Tank Diameter = 180 ft

Tank Wall thickness = 12 in (actual)

Tank Height = 12 ft

$f_y = 60,000$ psi

$f'_c = 4,000$ psi

| Horizontal Steel = #4 rebar Steel shown in table must be placed in each face of the wall | | |
|---------------------------------------------------------------------------------------------|--------------|----------------------------------------|
| Bar # | Spacing (in) | Distance from finished floor (ft - in) |
| 1 | 3 | 0' 3" |
| 2 | 10 | 1' 1" |
| 3 | 10 | 1' 11" |
| 4 | 10 | 2' 9" |
| 5 | 10 | 3' 7" |
| 6 | 10 | 4' 5" |
| 7 | 8 | 5' 1" |
| 8 | 8 | 5' 9" |
| 9 | 8 | 6' 5" |
| 10 | 8 | 7' 1" |
| 11 | 8 | 7' 9" |
| 12 | 8 | 8' 5" |
| 13 | 8 | 9' 1" |
| 14 | 8 | 9' 9" |
| 15 | 8 | 10' 5" |
| 16 | 8 | 11' 1" |
| 17 | 8 | 11' 9" |

Vertical Steel = #4 @ 12" O.C. in each face.

Dowels "L" bars from tank to footing shall be #4 @ 12" O.C. at the interior mat of steel. 26" vertical leg, 10" horizontal leg


For a length of 80 feet, centered on the ramp substitute #5 @ 12" O.C. vertical steel in each face for the #4 @ 12" O.C. vertical steel in each face.

In the tank wall, at the corner of the notch for the ramp add:

4-#6 bars x 11'-10" long @ 6" O.C. vertically in each mat of steel (6 total)

4-#6 bars x 20' long @ 6" O.C. horizontally in each mat of steel (6 total)

4-#6 bars x 6 feet long @ 6" O.C. at a 45 degree angle in each mat of steel (8 total).

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  Natural Resources Conservation Services United States Department of Agriculture | ____ County, PA ROUND TANK W/RAMP DETAIL Page 6.26 | Designed <u>PA NRCS</u> <u>12/01</u> Drawn <u>Hartz</u> <u>2/1/08</u> Revisions <u>Pereverzoff</u> <u>1/9/08</u> |
| | | Checked _____ Approved _____ |